Amendments to the Specification:

Please replace the paragraph at page 17, lines 12-20 with the following rewritten paragraph:

Fig. 12 shows an exemplary windowing and pattern recognition operation on a second image portion 516 of image 500. As shown in Fig. 12, the second portion 516 is compared to loose-template 640, and the difference between each image element of the second image portion 516 [A = (0, 63, 98, 0)] and respective loose-template image element T_4 = (0, 63, 191, 0) is placed in array 652. Next, the absolute value of each image element of array 652 is taken to produce a second array 654 and, as with Fig. 11, each image element of array 654 is then analyzed to create a pass/fail array-646_656. As shown in Fig. 12, because the third portion image element [98] is beyond its respective range [191±32], a negative feature recognition results.

Please replace the paragraph at page 18, lines 1-8 with the following rewritten paragraph:

Fig. 14 shows another exemplary windowing and pattern recognition operation on a third image portion 518. As shown in Fig. 14, each image element of the portion 518 is mapped to a new, low-resolution array 672. As discussed above, lowering the resolution of the portion 518 can allow each image element of array 672 to match a low-resolution template image element without requiring an exact eight-bit match because ranges become inherently incorporated into the templates by virtue of the lower resolution. The low-resolution array 672 then can be compared to template 670, to create a pass/fail array 674 which, in turn, can produce a "match/no match" indication-674_676.

Please replace the paragraph at page 18, lines 9-18 with the following rewritten paragraph:

Fig. 15 shows another exemplary low-resolution approach to windowing and pattern recognition operation on the third image portion 518 shown in Fig. 14 as well as a fourth image portion 519. As shown in Fig. 15, each image element of the third image portion 518 is mapped to low-resolution array 672 and each image element of the fourth image portion

519 is similarly mapped to a second low-resolution array 681. However, instead of comparing each low-resolution array 680 and 681 to predetermined templates, the image elements are arranged into respective second arrays 682 and 683, which can be used to create vectors-674 684 and-675 685. As discussed above, vectors-674 684 and-675 685 can act as pointers to state spaces or memory locations, or the vectors-674 684 and-675 685 can alternatively be directly compared to predetermined values.

Please replace the paragraph at page 18, line 26 – page 19, line 2 with the following rewritten paragraph:

Fig. 17 depicts a second exemplary arbitration operation on the image portion 710 in image 500. As shown in Fig. 17, four screens of features 742-748 are extracted and provided to arbitrator 750. The arbitrator 750 can then operate on the separate screens of features 742-748 using four separate sets of rules 752-758 to each produce one or more decision vectors (not shown). Rule set 762 can further operate the decision vectors provided by rule sets 752-758 to produce one or more final decision vectors 754 764. Again, while the exemplary arbitrator 750 produces sets of decision vectors 754 764, the arbitrator 750 can alternative act as a filter to remove extraneous features or create new features representing amalgams of features of other separate features.